## Introduction

 Tablet is defined as a compressed solid dosage form containing medicaments with or without excipients.

 According to the Indian Pharmacopoeia Pharmaceutical tablets are solid, flat or biconvex dishes, unit dosage form, prepared by compressing a drug or a mixture of drugs, with or without diluents.



- More stable than liquid dosage forms, may have longer shelf –life.
- Portable, easy to handle.
- Better in accuracy & precision of dose.
- Cost is lowest of all oral dosage form.
- Easiest and cheapest to package and strip.



- Objectionable odour and bitter taste can be masked by coating technique.
- Greatest chemical and microbial stability over all oral dosage form.
- Sustained release product is possible by enteric coating.

# Disadvantages:

- Difficult to swallow in case of children and unconscious patients.
- Disintegration & dissolution of tablets are ratedetermining factors for drug absorption & usually they show slow onset of action.
- Slower onset of action than parental dosage form.
- Drugs having low bulk density cannot be formulated into dense compact tablets.
- Tablets cannot be used in emergency cases.

## **TYPES OF TABLETS**

- (A) TABLETS INGESTED ORALLY:
- 1. Compressed tablet
- 2. Multiple compressed tablet
- 3. Multilayered tablet
- 4. Sustained action tablets
- 5. Enteric coated tablets
- 6. Sugar coated tablet
- 7. Film coated tablet
- 8. Chewable tablet

## Cont...

### (B) TABLETS USED IN ORAL CAVITY:

1. Buccal tablet

2. Sublingual tablet

3. Troches or lozenges

4. Dental cone

## Cont...

### (C) TABLETS ADMINISTERED BY OTHER ROUTE:

1. Implantation tablet

2. Vaginal tablet, e.g. Clotrimazole tablet

## Cont...

### D) TABLETS USED TO PREPARE SOLUTION:

- 1. Effervescent tablet
- 2. Dispensing tablet
- 3. Hypodermic tablet

4. Tablet triturates



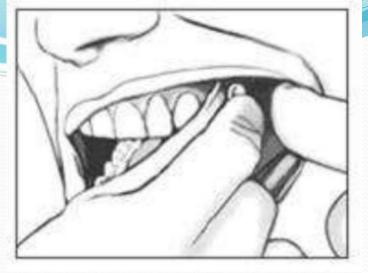


SUBLINGUAL TABLET



#### LOZENGE TABLETS





#### BUCCAL TABLET



#### **DENTAL CONES**



#### EFFERVESCENT TABLETS

VAGINAL TABLETS

TABLET TRITURATES

### TABLETS INGESTED ORALLY

**Compressed tablet (C.T):** These tablets are uncoated, provides rapid disintegration & drug release. These tablets contains water soluble drugs.

- Multiple compressed tablets (M.C.T): To avoid incompatibility, the ingredients of the formulation except the incompatible material are compressed into a core tablet & then incompatible substance along with excipients are compressed over the previously compressed core tablet.
- Multilayered tablets: These tablets con layers of materials compressed succes tablets. These tablets having layers of c known as "multicoloured tablets". These to separate incompatible ingredients phy



### Cont..

**Sustained action tablets:** These tablets gives a sustained action of medicaments. These tablets release the medicaments in a sufficient quty. as & when required to maintain the maximum effective con. of the drug in the blood throughout the period of treatment.

- Enteric coated tablets: These tablets are designed in a such a way that it bypass the stomach & get disintegrated in the intestine only. e.g. anthelmentics & amoebicides.
- **Sugar coated tablets :** use for mask the unpleasant odour, taste of the medicament & also protect from the atmospheric effect.
- Film coated tablets : Use the polymers for coating purpose such as, HPMC, hydroxypropyl cellulose, ethyl cellulose for protection from atmospheric effect. Those polymers little increases in weight & have less elegance than that of sugar coated tablets & tasteless.

### TABLETS ADMINISTERED BY OTHER ROUTES

- **Implantation Tablets :** These tablets are placed under the skin by minor surgical operation & are slowly absorbed. The implants must be sterile & should be packed individually in sterile condition. Those are mainly used for administration of hormones such as testosterone etc.
- Vaginal Tablets : These tablets are dissolve slowly in the vaginal cavity. These are oval or pear shaped. These tablets used to release steroids, antibacterial agents, antiseptic or astringents to treat vaginal infection.

### TABLETS USED TO PRODUCE SOLUTIONS

• Effervescent tablets:- These type of tablets dissolved in water and produce effervescence due to chemical reaction between alkali bicarbonate and citric acid to produce carbon dioxide. These tablets should stored in tight containers for prevention of moisture.

